

wherein said acceleration detection element is supported at an end thereof such that said acceleration detection element is deflected in the thickness direction of the piezoelectric substrate under acceleration, and

wherein acceleration is detected by differentially detecting a frequency change or an impedance change of said two surface acoustic wave resonators which is caused by the deflection of the acceleration detection element.

4. (amended) An acceleration sensor comprising an acceleration detection element including two surface acoustic wave resonators, which include a single glass substrate, a pair of IDT electrodes arranged on each of the front and back surfaces of said glass substrate, and a piezoelectric film which is deposited on said glass substrate including said IDT electrodes thereon,

wherein said acceleration detection element is supported at an end thereof such that said acceleration detection element is deflected in the thickness direction of the glass substrate under acceleration and,

wherein acceleration is detected by differentially detecting a frequency change or an impedance change of said two surface acoustic wave resonators which is caused by the deflection of the acceleration detection element.